

First Instructor-Team Meeting (6/24/14)

Summary: This meeting was in place to get our bearings for the project. Dr. Alexander gave us a rough outcome for what he is expecting for each semesters goal and end product. Dr. Alexander also gave a lot of pointers on managing the processes that are not in control of the team, to make sure what is being done, can be done properly.

What was Discussed:

1. The expected end goal verification: A complete math model with data verifying that the math model is depicting the correct information.
2. Budget: Make sure to run everything by Scott.
3. First Snapshot: Current state analysis, project learning, etc. Pinned up on a foam core board. Provide info so that it isn't a hassle, which it shouldn't be.
4. What needs to be completed by this coming end of summer semester: Some of a validated model complete, No need to get all the data and find out that something was missed during instrumentation install/purchasing.
5. Purchasing will all be done by Scott: Breakdown what we need for Scott so he isn't given just one option/give recommendations.
6. Access to the South Campus Chiller Plant (SCCP): This will be through Scott or through one of his employees until further notice.
7. Current State Analysis: The plant is currently functioning as a switch with 4 stages and no PLC functionality. This was a state of the art system but facilities decided that they didn't like the controls that were in place when the system was bought and went the root of having it either on or off.
8. Current Operation: Plant is very inefficient, shown that it is supposed to be outputting a maximum of 500 tons of refrigeration per chiller but only puts out about 60-80% of what is being asked.
9. Model in EES (Controller): Can be modeled in EES to be used as a controller for the entire plant.
10. Starting out with a simple model: We can simply model the system in EES to get a start early on in the modeling process and verifying with data that what is being shown is a valid model.
11. Monitor facilities to make sure that the instrumentation being installed on the plant is correctly installed. We, the team of engineers are the experts on the particular sensor, data acquisition device, etc.
12. Do thorough research on all of the devices being purchased and installed, so that we become experts on the device.
13. Proposed project timeline: Week 2 - Purchase all Instrumentation, Week 3 - Simple Math Model, Week 4 - Install Instrumentation/Program for data acquisition.

Total Meeting Time: 45 Minutes